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(54) ANTENNA DEVICE

(57) Abstract:

PURPOSE: To eliminate the necessity to move an antenna although a disturbance wave source varies its direction, by setting a secondary array antenna so that it covers over a part of the opening surface of a reflector and controlling a phase shifter and an attenuator within the antenna.

CONSTITUTION: The electric wave radiated from a primary radiator 10 is reflected by a parabola reflector 10 and has an equal phase on an opening surface 13. A secondary array antenna 12 is set so that a radiation element 12a covers over a part of the surface 13. While the electric wave radiated from a radiation element 12a passes through a phase shifter 12b and an attenuator 12c to be radiated through a radiation element 12d. Both shifter 12b and attenuator 12c are controlled electronically from outside to give the desired phase shift and attenuation to the electric wave. Thus the desired radiation directivity is obtained for the antenna 12.

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